

FIG. 1

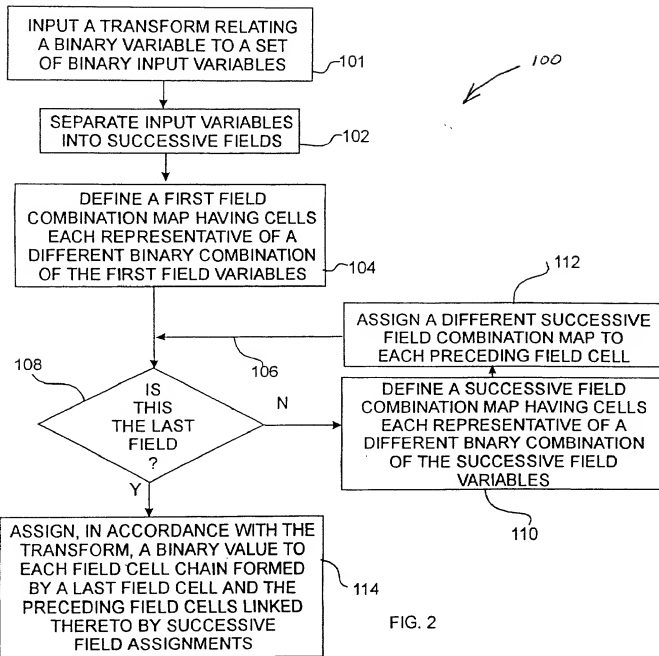


FIG. 2

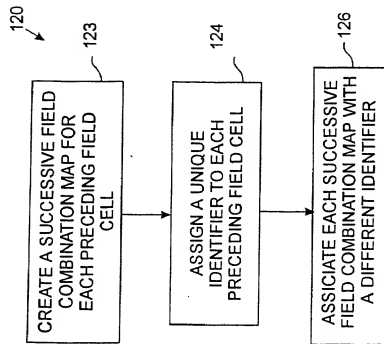


FIG. 3A

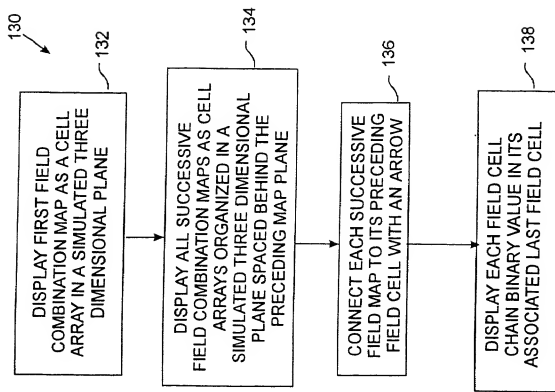


FIG. 3B

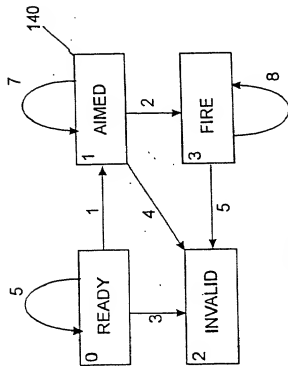


FIG. 4A

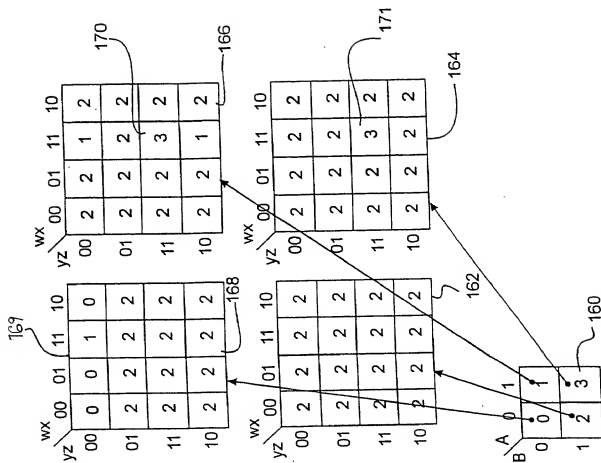


FIG. 4C

FIG. 4B

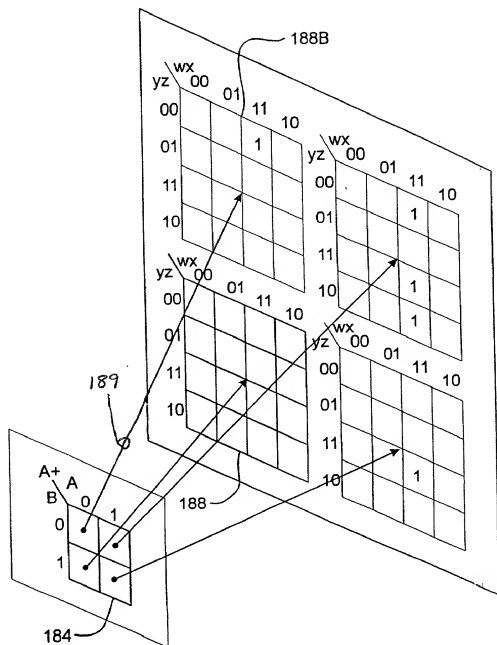


FIG. 5

FIG. 6A

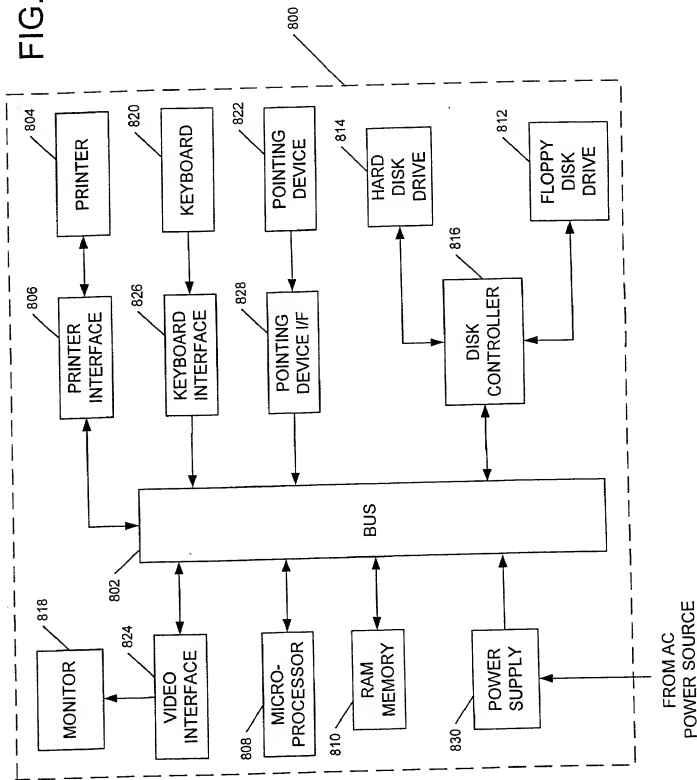
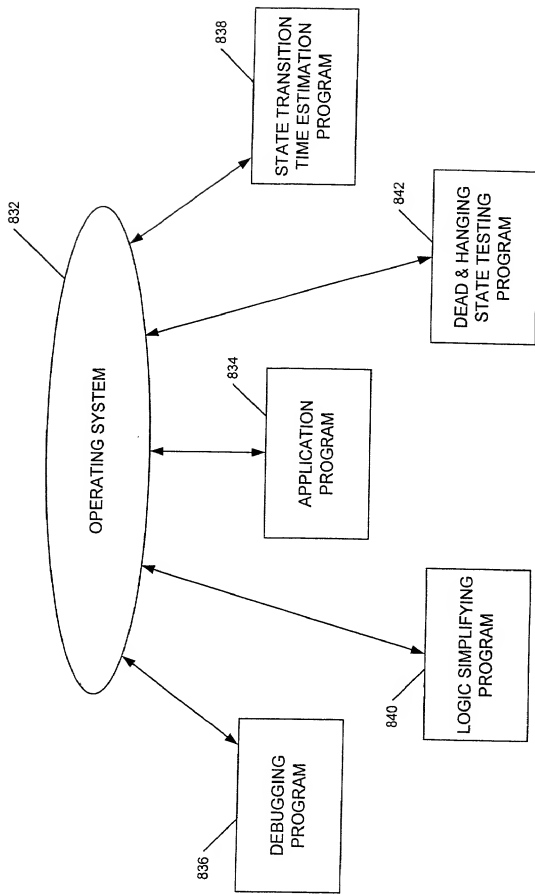


FIG. 6B



START

SELECT THE FIELD WHICH IS
ABOVE THE FIELD WHOSE INPUTS
ARE TO BE IDENTIFIED AS
ACTIVE OR INACTIVE

230

229

SELECT THE DESIRED STATE OR FIELD
COMBINATION WHICH WILL HAVE ITS NEXT LOWER
LEVEL INPUTS MARKED AS ACTIVE OR INACTIVE

231

MARK THOSE INPUTS SELECTED TO BE DISPLAYED
IN THE FIELD BELOW THIS FIELD COMBINATION
AS ACTIVE INPUTS FOR THIS COMBINATION,
AND MARK ALL OTHER INPUTS AS INACTIVE

232

GENERATE AN ARRAY OF INPUTS INDICATING
ACTIVE OR INACTIVE INPUTS FOR THIS COMBINATION

233

ARRANGE THE ACTIVE INPUTS INTO A CONTINUOUS
SEQUENCE OF INPUTS SUCH THAT THE INPUTS WILL
BE DISPLAYED IN ORDER AT THE NEXT LOWER FIELD LEVEL

234

GO
DOWN TO NEXT
LEVEL OF SELECTED
COMBINATION?

N

STOP

Y

DISPLAY THE COMBINATION OF THE ACTIVE
INPUTS WITH ASSIGNED BIT LOCATIONS
FOR THE CONTINUOUS SEQUENCE FOR THIS FIELD

236

FIG. 7

09742774.050201

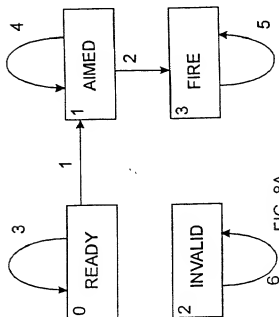


FIG. 8A

W = FUEL
X = COMPTTR
Y = AIMED
Z = BUTTON

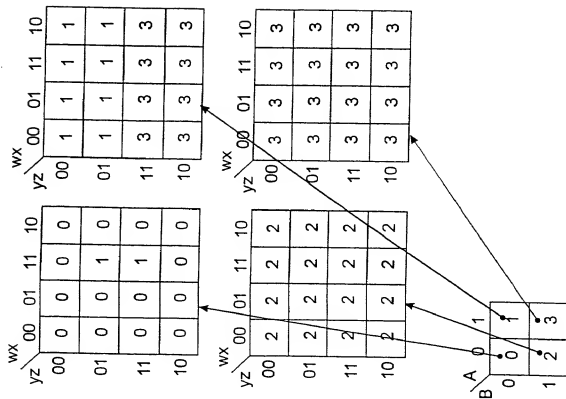


FIG. 8B

FIG. 8C

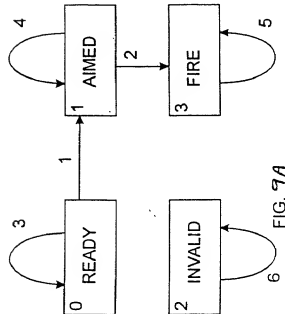


FIG. 9A

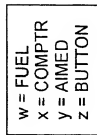


FIG. 9C

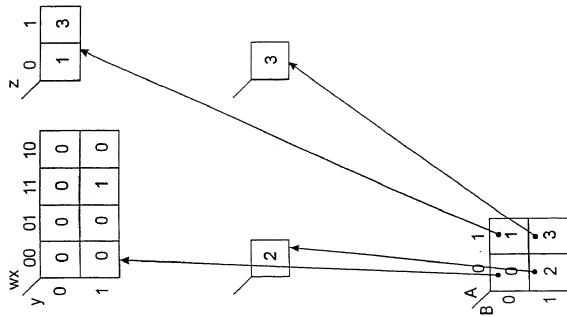


FIG. 9B

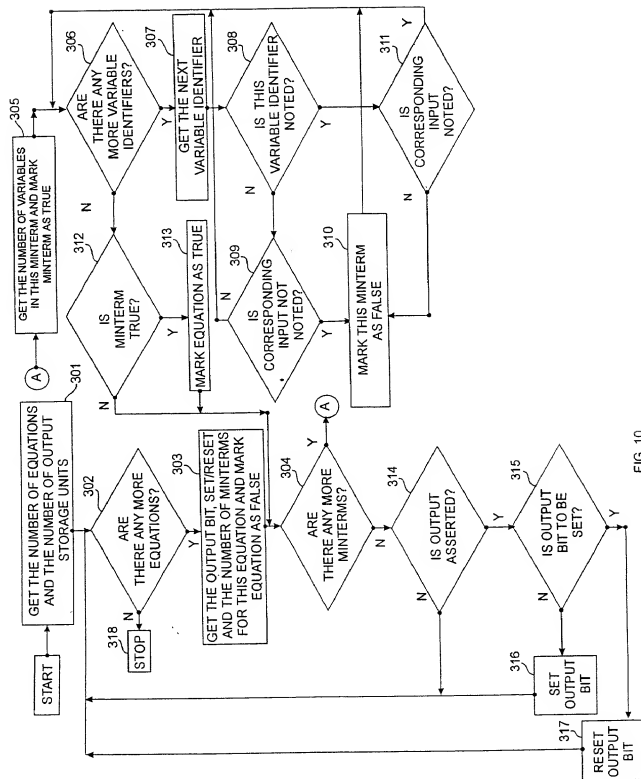


FIG. 10

400	2 = 2#0000_0000_0000_0010#
401	17 = 2# 0000_0000_0001_0001#
402	16384 = 2#1000_0000_0000_0000#
403	2 = 2#0000_0000_0000_00010#
404	3 = 2#0000_0000_0000_0011#
405	16384 = 2#1000_0000_0000_0000#
406	1 = 2#0000_0000_0000_0001#
407	16384 = 2#1000_0000_0000_0010#
408	3 = 2#0000_0000_0000_0011#
409	1 = 2#0000_0000_0000_0001#
410	1 = 2#0000_0000_0000_00001#
411	1 = 2#0000_0000_0000_0001#
412	3 = 2#0000_0000_0000_0010#
413	1 = 2#0000_0000_0000_0001#
414	1 = 2#0000_0000_0000_0001#
415	1 = 2#0000_0000_0000_0001#
416	0 = 2#0000_0000_0000_0000#
417	BIT0 (TO BE SET) := NOT VARIABLE_0 AND VARIABLE_1 AND NOT VARIABLE_2 OR NOT VARIABLE_1
418	BIT3 (TO BE RESET) := NOT VARIABLE_1

FIG. 11

NUMBER OF EQUATIONS

LOCATION OF END OF ARRAY

BIT LOCATION OF EQUATION 1. EQUATION WILL BE SET

NUMBER OF MINTERMS OF EQUATION 1

NUMBER OF VARIABLES IN MINTERM 1 OF EQUATION 1

FIRST VARIABLE IDENTIFIER OF MINTERM 1 OF EQUATION 1, NOTED

SECOND VARIABLE IDENTIFIER OF MINTERM 1 OF EQUATION 1

THIRD VARIABLE IDENTIFIER OF MINTERM 1 OF EQUATION 1

NUMBER OF VARIABLES IN MINTERM 1 OF EQUATION 1, NOTED

NUMBER OF VARIABLES IN MINTERM 2 OF EQUATION 1

FIRST VARIABLE IDENTIFIER OF MINTERM 2 OF EQUATION 1

NUMBER OF VARIABLES IN MINTERM 2 OF EQUATION 1

BIT LOCATION OF EQUATION 2, WILL BE RESET

NUMBER OF VARIABLES IN MINTERM 1 OF EQUATION 2

FIRST VARIABLE IDENTIFIER OF MINTERM 1 OF EQUATION 2

NUMBER OF VARIABLES IN MINTERM 1 OF EQUATION 2

END OF ARRAY

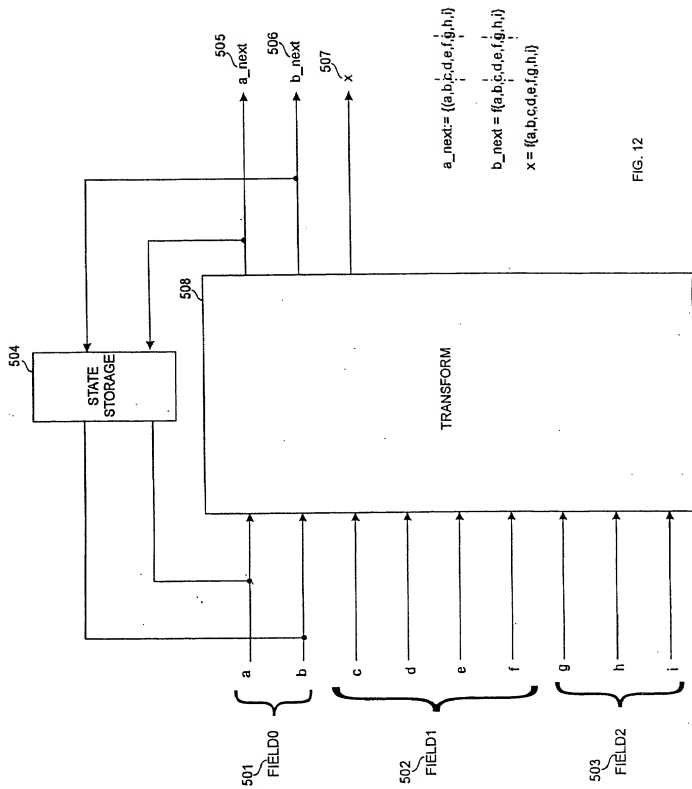


FIG. 12

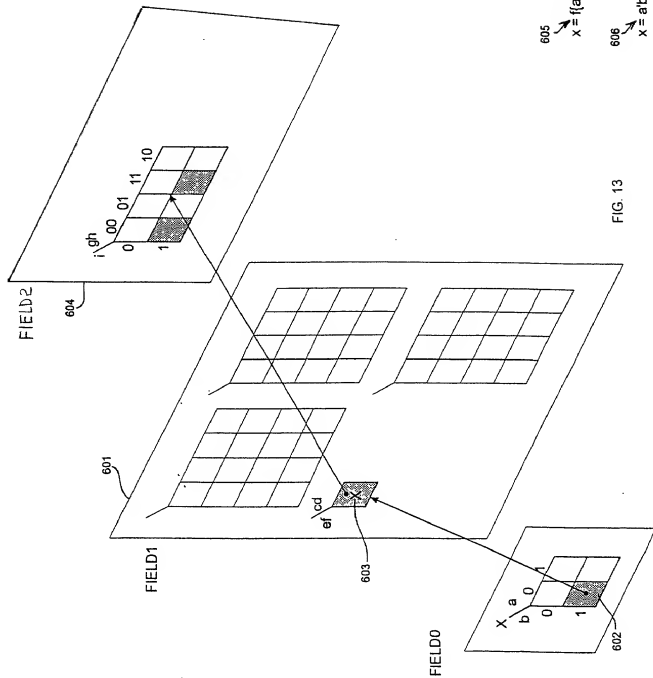
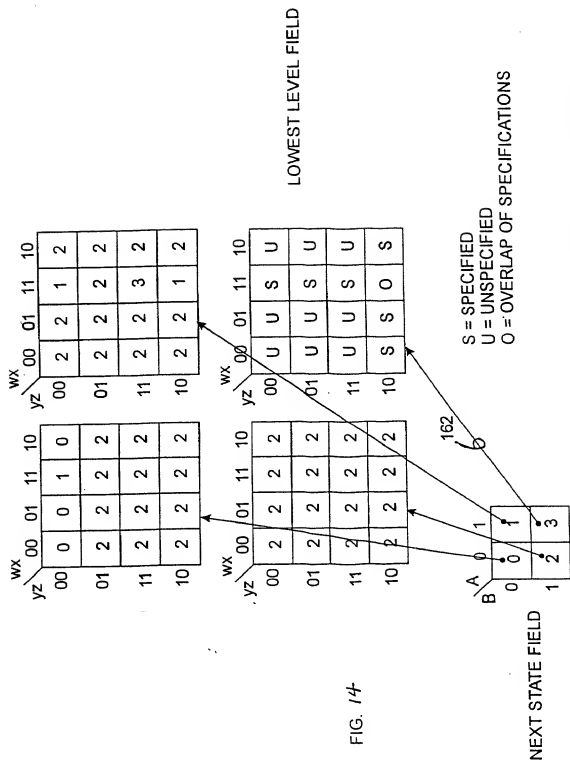


FIG. 13

$$x = f(a, b, c, d, e, f, g, h, i) = f(a, b, g, h, i) \quad \text{where } a = 0, b = 1$$

$$x = ab (gh'i + ghi)$$



THE NEXT STATE SPECIFICATIONS THAT ARE BELOW STATE FIELD COMBINATION 3, NAMELY, "FOR ALL COMBINATIONS WHERE ABYz' ARE TRUE GO TO NEXT STATE 1, AND "FOR ALL COMBINATIONS WHERE ABwx ARE TRUE GO TO NEXT STATE 2," WILL RESULT IN AN OVERLAPPED (O) OR AMBIGUOUS SPECIFICATION FOR COMBINATION ABwxyz' AND UNSPECIFIED (U) OR INCOMPLETE SPECIFICATION IN COMBINATIONS AB(w'y'-w'z'+x'y'-x'z').

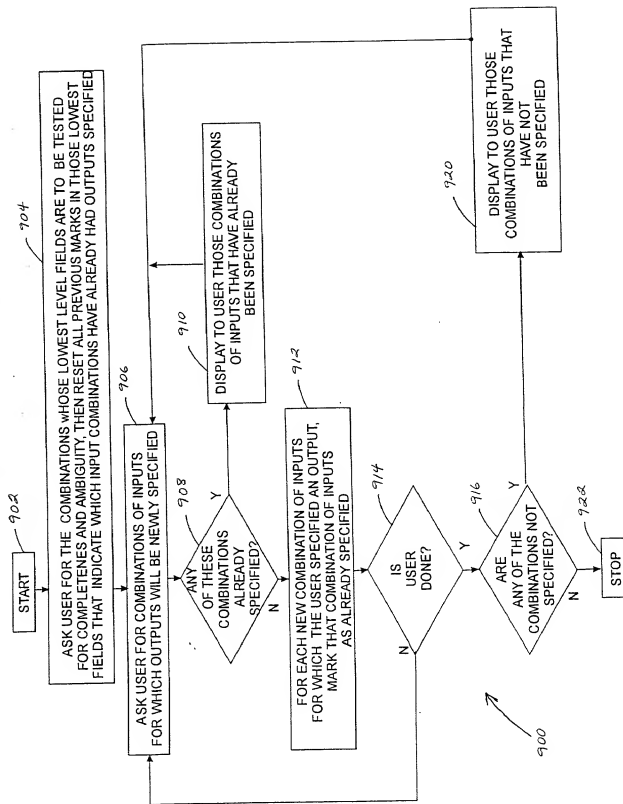


FIG. 15